

**PATENT APPLICATION**  
**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of

Docket No: Q92863

Junya TOGUUCHIDA

Appln. No.: Based on PCT/JP04/010890

Confirmation No.: Unknown

Group Art Unit: Unknown

Filed: January 25, 2006

Examiner: Unknown

For: REMEDY FOR CARTILAGE-RELATED DISEASES

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 C.F.R. §§ 1.97 and 1.98**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached PTO/SB/08 A & B (modified) form and/or listed herein and which the Examiner may deem material to patentability of the claims of the above-identified application.

A copy of the corresponding International Search Report is submitted herewith. The USPTO should receive copies of the references cited in the International Search Report from the International Bureau. Applicant will furnish any missing references upon request.

The present Information Disclosure Statement is being filed: (1) No later than three months from the application's filing date; (2) Before the mailing date of the first Office Action on the merits (whichever is later); or (3) Before the mailing date of the first Office Action after

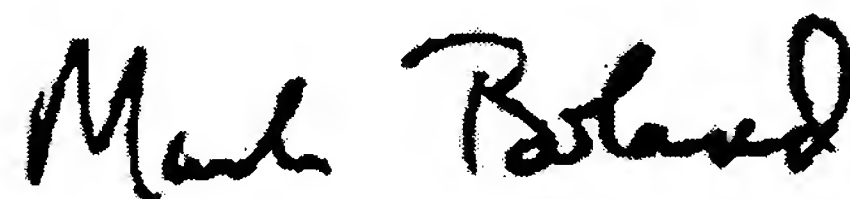
INFORMATION DISCLOSURE STATEMENT  
U.S. Appln. No.: Based on PCT/JP04/010890  
Attorney Docket No.: Q92863

In compliance with the concise explanation requirement under 37 C.F.R. § 1.98(a)(3) for foreign language documents, Applicant encloses herewith a copy of a Communication from a foreign patent office in a counterpart application citing such documents (International Search Report for PCT/JP04/010890 dated November 16, 2004), together with an English-language version (if not already included) of at least that portion of the Communication indicating the degree of relevance found by the foreign patent office.

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account. A duplicate copy of this paper is attached.

Respectfully submitted,



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WASHINGTON OFFICE

**23373**

CUSTOMER NUMBER

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Mark Boland  
Registration No. 32,197

Date: January 25, 2006

Substitute for Form 1449 A & B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				<i>Complete if Known</i>	
				Application Number	Base on PCT/JP/A/0890
				Confirmation Number	Unknown
				Filing Date	January 25, 2006
				First Named Inventor	Junya TOGUCHIDA
				Art Unit	Unknown
Sheet 1 of 1				Examiner Name	Unknown
				Attorney Docket Number	Q92863

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code <sup>2</sup> <i>(if known)</i>		
		US 6,133,230	A	10-17-2000	UNIV. QUEENS KINGSTON

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> <i>(if known)</i>			
		WO	03/45371	A1	06-05-2003	PFIZER PROD. INC.	
		JP	2001-220357	A	08-14-2001	Pfizer Products Inc.	
		WO	98/58911	A2	12-30-1998	PFIZER INC	
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		JP	2002-179595	A	06-26-2002	Pfizer Products Inc.	
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		WO	03/16254	A1	02-27-2003	ONO PHARM CO LTD	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation <sup>6</sup>
		AJ DE-BRUM-FERNANDES, et al., "Characterization of the PGE2 receptor subtype in bovine chondrocytes in culture", Br. J. Pharmacol., 1996, pp. 1597-1604, Vol. 118, No. 7	
		VM PARALKAR, et al., "An EP2 receptor-selective prostaglandin E2 agonist induces bone healing", Proc. Natl. Acad. Sci. USA, May 27, 2003, pp. 6736-6740	
		F DEL TORO JR, et al., "Characterization of prostaglandin E(2) receptors and their role in 24,25-(OH)(2)2(3)-mediated effects on resting zone chondrocytes", J. Cell. Physiol., 2000, pp. 196-208, Vol. 182, No. 2	
		U. SUZUWA, et al., "The role of prostaglandin E receptor subtypes (EP1, EP2, EP3 and EP4) in bone resorption: an analysis using specific agonists for the respective EPs.", Endocrinology, 2000, pp. 1554-1559, Vol. 141, No. 4	
		E. ROSADO, et al., "Transforming growth factor-β1 regulation of growth zone chondrocytes is mediated by multiple interacting pathways.", Biochim. Biophys. Acta, 2002, pp. 1-15, Vol. 1590, No. 1-3	
		VL SYLVIA, et al., "Transforming growth factor-β1 regulation of resting zone chondrocytes is mediated by two separate but interacting pathways.", Biochim. Biophys. Acta, 2000, pp/ 311-324, Vol. 1496, No. 2-3	
		VL SYLVIA, et al., "Characterization of PGE2 receptors (EP) and their role as mediators of 1α,25-(OH)2D3 effects on growth zone chondrocytes.", J. Steroid Biochem. Mol. Biol., 2001, pp. 261-274, Vol. 78, No.3	
		JM MCCOY, et al. "The role of prostaglandin E2 receptors in the pathogenesis of rheumatoid arthritis.", J. Clin. Invest., 2002, pp. 651-658, Vol. 110, No. 5	
Examiner Signature		Date Considered	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kind Codes of USPTO Patent Documents at www.uspto.gov, MPEP 901.04 or in the comment box of this document. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to indicate here if English language Translation is attached.